CLAIMS

What is claimed is:

1	1. A method, comprising:
1	1. A method, comprising.
2	detecting that a processor is overheated; and
3	automatically removing power from the processor.
1	2. The method of claim 1, further comprising rebooting a computer system.
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2	the computer system including the processor.
1	3. The method of claim 2, further comprising throttling the processor
2	following the reboot.
4	Tollowing the reboot.
1	4. The method of claim 2, further comprising applying a reduced voltage to
2	the processor during and subsequent to the reboot.
1	5. The method of claim 3, wherein rebooting the computer system includes
2	rebooting the computer system after a predetermined period of time following the
3	detection of the overheated condition.
1	6. The method of claim 3, wherein rebooting the computer system includes
2	rebooting the computer system after the processor has cooled to a predetermined

temperature.

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1	7. The method of claim 3, further comprising:
2	detecting for a second time that the processor is overheated;
3	automatically removing power from the processor for a second time; and
4	again rebooting the computer system.
1	8. An apparatus, comprising:
2	a processor interface unit to monitor a thermal trip signal from a processor; and
3	a voltage regulator module interface to assert a power off signal to a voltage
4	regulator module in response to an assertion of the thermal trip signal.
1	9. The apparatus of claim 8, wherein the processor interface periodically
2	asserts a stop clock signal to the processor in response to a system reboot following the
3	assertion of the thermal trip signal.
1	10. The apparatus of claim 9, further including a status bit that is set in
2	response to the assertion of the thermal trip signal, the status bit to indicate that the
3	system reboot is in response to the assertion of the thermal trip signal.
1	11. A system, comprising:
2	a processor including a thermal trip signal output that is asserted in response to an

overheat condition;

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- a power management device to receive the thermal trip signal, the power

 management device to assert a power off signal in response to an assertion of the thermal

 trip signal; and

 a power supply device to deliver power to the processor, the power supply device
- to receive the power off signal and to cease to deliver power to the processor in response to an assertion of the power off signal.
- 1 12. The system of claim 11, wherein the power supply device is a voltage 2 regulator module.
 - 13. The system of claim 11, further comprising reset logic to cause a system reset in response to the assertion of the thermal trip signal.
- 1 14. The system of claim 13, the reset logic to cause the system reset in 2 response to the assertion of the thermal trip signal after a predetermined period of time 3 had elapsed following the assertion of the thermal trip signal.
- 1 15. The system of claim 13, the reset logic to cause the system reset in 2 response to the assertion of the thermal trip signal after the processor has cooled to a 3 predetermined temperature.
- 1 16. The system of claim 14, the power management device to periodically
 2 assert a stop clock signal to the processor during and following the system reset.